

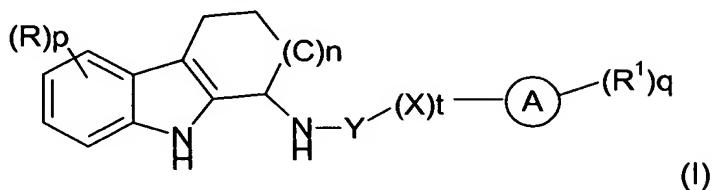
Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

What is claimed is:

1. (Currently amended) A compound of formula (I) :



wherein:

n is 0, 1, or 2;

t is 0 or 1;

X is -NH-, -O-, -R¹⁰-, -OR¹⁰-, -R¹⁰O-, -R¹⁰OR¹⁰-, -NR¹⁰-, -R¹⁰N-, -R¹⁰NR¹⁰-, -R¹⁰S(O)_m-, or -R¹⁰S(O)_mR¹⁰-;

Y is -C(O)- or -S(O)_m-;

each R is the same or different and is independently selected from the group consisting of

halogen, haloalkyl, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, -R¹⁰cycloalkyl, Ay, -NHR¹⁰Ay, Het, -NHHet, -NHR¹⁰Het, -OR², -OAy, -OHet, -R¹⁰OR², -NR²R³, -NR²Ay, -R¹⁰NR²R³, -R¹⁰NR²Ay, -R¹⁰C(O)R², -C(O)R², -CO₂R², -R¹⁰CO₂R², -C(O)NR²R³, -C(O)Ay, -C(O)NR²Ay, -C(O)Het, -C(O)NHR¹⁰Het, -R¹⁰C(O)NR²R³, -C(S)NR²R³, -R¹⁰C(S)NR²R³, -R¹⁰NHC(NH)NR²R³, -C(NH)NR²R³, -R¹⁰C(NH)NR²R³, -S(O)₂NR²R³, -S(O)₂NR²Ay, -R¹⁰SO₂NHCOR², -R¹⁰SO₂NR²R³, -R¹⁰SO₂R², -S(O)_mR², -S(O)_mAy, cyano, nitro, or azido;

each R¹ is the same or different and is independently selected from the group

consisting of halogen, haloalkyl, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, -R¹⁰cycloalkyl, Ay, -NHR¹⁰Ay, Het, -NHHet, -NHR¹⁰Het, -OR², -OAy, -OHet, -R¹⁰OR², -NR²R³, -NR²Ay, -R¹⁰NR²R³, -R¹⁰NR²Ay, -R¹⁰C(O)R², -C(O)R², -CO₂R², -R¹⁰CO₂R², -C(O)NR²R³, -C(O)Ay, -C(O)NR²Ay, -C(O)Het, -

C(O)NHR¹⁰Het, -R¹⁰C(O)NR²R³, -C(S)NR²R³, -R¹⁰C(S)NR²R³, -R¹⁰NHC(NH)NR²R³, -C(NH)NR²R³, -R¹⁰C(NH)NR²R³, -S(O)₂NR²R³, -S(O)₂NR²Ay, -R¹⁰SO₂NHCOR², -R¹⁰SO₂NR²R³, -R¹⁰SO₂R², -S(O)_mR², -S(O)_mAy, cyano, nitro, or azido;

each m independently is 0, 1, or 2;

each R¹⁰ is the same or different and is independently selected from alkylene, cycloalkylene, alkenylene, cycloalkenylene, and alkynylene;

p and q are each independently selected from 0, 1, 2, 3, 4, or 5;

each of R² and R³ are the same or different and are independently selected from the group consisting of H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, -R¹⁰cycloalkyl, -R¹⁰OH, -R¹⁰(OR¹⁰)_w, and -R¹⁰NR⁴R⁵;

w is 1-10;

each of R⁴ and R⁵ are the same or different and are independently selected from the group consisting of alkyl, cycloalkyl, alkenyl, cycloalkenyl, and alkynyl;

Ay represents an aryl group;

Het represents a 5- or 6-membered heterocyclyl or heteroaryl group;

ring A is aryl or heteroaryl;

provided that when the A ring is aryl, t is 0, and Y is SO₂, then p is not 0; and salts, solvates and physiologically functional derivatives thereof.

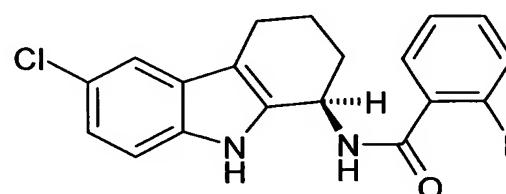
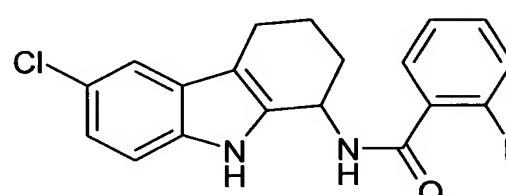
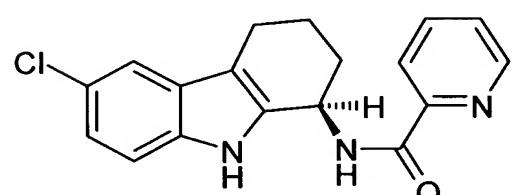
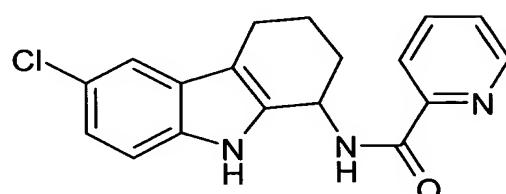
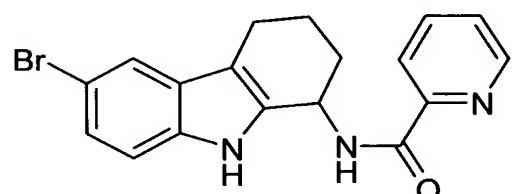
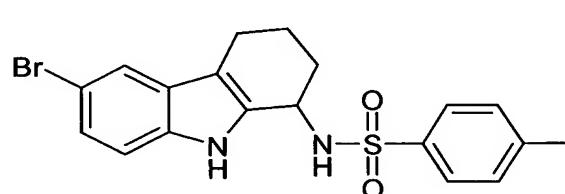
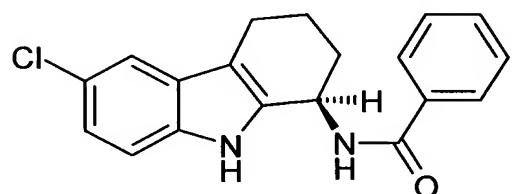
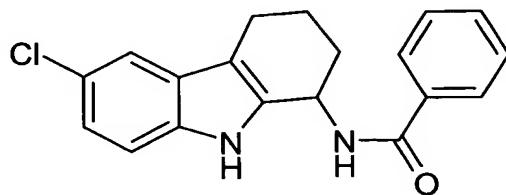
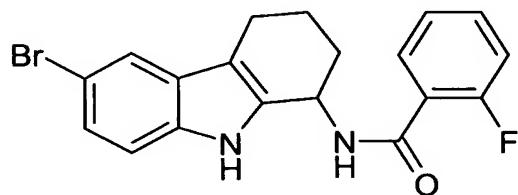
2. (Original) The compound of claim 1 wherein alkyl is C₁-C₆ alkyl, alkoxy is C₁-C₆ alkoxy, haloalkyl is C₁-C₆ haloalkyl, alkylene is C₁-C₆ alkylene, and alkenylene is C₁-C₆ alkenylene.
3. (Original) The compound wherein t is 0 and Y is -C(O)-.
4. (Original) The compound wherein t is 0 and Y is -S(O)_m-.
5. (Currently amended) The compound of claim 1 wherein t is 1, Y is -C(O)-, and X is -NH-, -O-, or -R¹⁰-, or OR¹⁰-.
6. (Currently amended) The compound of claim 1 wherein t is 1, Y is -S(O)_m-, and X is -NH-, -O-, or -R¹⁰-, or OR¹⁰-.
7. (Original) The compound of claim 1 wherein n is 1.
8. (Original) The compound of claim 1 wherein p is 1 or more and R is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², cyano, nitro, or azido.

9. (Original) The compound of claim 8 wherein R is halogen, alkyl, haloalkyl.
10. (Original) The compound of claim 9 wherein R is substituted *para* to the depicted N atom.
11. (Original) The compound of claim 10 wherein R is halogen.
12. (Original) The compound of claim 11 wherein R is Br or Cl.
13. (Original) The compound of claim 1 wherein q is 1 or more and R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², Ay, Het, cyano, nitro, or azido.
14. (Original) The compound of claim 13 wherein R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², or cyano.
15. (Original) The compound of claim 14 wherein R² and R³ each are C₁-C₆ alkyl.
16. (Original) The compound of claim 14 wherein R¹ is selected from halogen, alkyl, or -OR².
17. (Original) The compound of claim 16 wherein said halogen is fluoro or chloro, said alkyl is methyl, and said -OR² is alkoxy.
18. (Original) The compound of claim 1 wherein the A ring is aryl.
19. (Original) The compound of claim 18 wherein the A ring is phenyl.
20. (Original) The compound of claim 19 wherein q is 1 or more and R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², Ay, Het, cyano, nitro, or azido.
21. (Original) The compound of claim 20 wherein q is 1 or more and R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², or cyano.
22. (Original) The compound of claim 1 wherein the A ring is heteroaryl.
23. (Original) The compound of claim 22 wherein the heteroaryl is pyridyl.
24. (Original) The compound of claim 23 wherein q is 0 or 1.
25. (Original) The compound of claim 24 wherein when q is 1, then R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², Ay, Het, cyano, nitro, or azido.
26. (Original) The compound of claim 25 wherein when q is 1, then R¹ is selected from halogen, alkyl, haloalkyl, -OR², -NR²R³, -C(O)R², -CO₂R², or cyano.

27. (Original) The compound of claim 1 wherein p is 1, R is halogen, n is 1, Y is $-C(O)-$, t is 0, ring A is heteroaryl, and q is 0.

28. (Original) The compound of claim 27 wherein R is chloro and ring A is pyridyl.

29. (Original) A compound selected from:



or

30. (Original) The compound of claim 1 selected from
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-phenylurea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-(4-methoxyphenyl)urea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-(4-methoxy-2-methylphenyl)urea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-(3-chloro-4-methoxyphenyl)urea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-[4-(dimethylamino)phenyl]urea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N-[(1*R*)-6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-[(1*S*)-6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-phenylacetamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-phenylpropanamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-phenylprop-2-enamide;
Benzyl 6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-ylcarbamate;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-dichlorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-nitrobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-chlorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-(trifluoromethyl)benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-nitrobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-chlorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-methylbenzamide;
N-(2,3,4,9-Tetrahydro-1*H*-carbazol-1-yl)benzamide;
N-(6-Methyl-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N-[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;

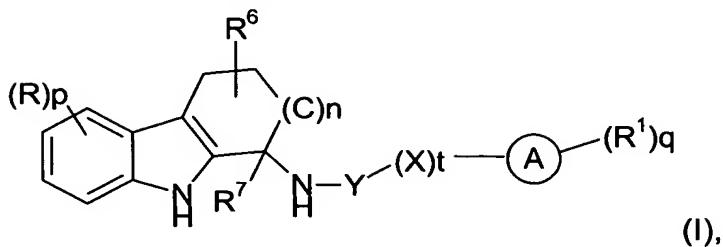
N-(1*S*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzenesulfonamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)pyridine-2-carboxamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)nicotinamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-6-chloronicotinamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)isonicotinamide;
N-Phenyl-*N'*-(2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)urea;
N-(6-Methyl-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-phenylurea;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N'*-phenylurea;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-pyridinecarboxamide;
N-(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]pyridine-2-carboxamide;
N-(1*S*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]pyridine-2-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N-(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]-2-fluorobenzamide;
N-(1*S*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]-2-fluorobenzamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1-methyl-1*H*-imidazole-5-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1-methyl-1*H*-pyrazole-5-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1-methyl-1*H*-pyrazole-3-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1*H*-imidazole-4-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1*H*-pyrazole-3-carboxamide;
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-difluorobenzamide;
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzenesulfonamide; and
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-difluorobenzenesulfonamide.

31. (Original) The compound of claim 1 selected from
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-*N*'-[4-(dimethylamino)phenyl]urea;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N[(1*R*)-6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-phenylprop-2-enamide;
Benzyl 6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-ylcarbamate;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-nitrobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-chlorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-(trifluoromethyl)benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-methylbenzamide;
N-(6-Methyl-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzenesulfonamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)pyridine-2-carboxamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)nicotinamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-6-chloronicotinamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)isonicotinamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-pyridinecarboxamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]pyridine-2-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]-2-fluorobenzamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1*H*-imidazole-4-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-1*H*-pyrazole-3-carboxamide;
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-difluorobenzamide;
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzenesulfonamide; and

N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-difluorobenzenesulfonamide.

32. (Original) The compound of claim 1 selected from
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N[(1*R*)-6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
Benzyl 6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-ylcarbamate;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-nitrobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-chlorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-fluorobenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methoxybenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-3-methylbenzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N-(6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)benzamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]benzamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-4-methylbenzenesulfonamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)pyridine-2-carboxamide;
N-(6-Bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-6-chloronicotinamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-pyridinecarboxamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]pyridine-2-carboxamide;
N-(6-Chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzamide;
N[(1*R*)-6-chloro-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl]-2-fluorobenzamide;
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2,6-difluorobenzamide; and
N-(6-bromo-2,3,4,9-tetrahydro-1*H*-carbazol-1-yl)-2-fluorobenzenesulfonamide.

33. (Original) The compound of claim 1 further comprising:



including salts, solvates and pharmaceutically functional derivatives, wherein R⁶ is H, alkyl, -OR², -NR²R³, Ay, Het, -C(O)R², -CO₂R², -CONR²R³, -S(O)_mR², or oxo, where R², R³, m, Ay, and Het are as defined; and R⁷ is H or alkyl;
provided R⁶ and R⁷ are not both H.

34. (Cancelled).
35. (Currently Amended) A pharmaceutical composition comprising a compound according to claims 1 to 33, and a pharmaceutically acceptable carrier.
36. (Cancelled).
37. (Cancelled).
38. (Cancelled).
39. (Cancelled).
40. (Cancelled).
41. (Cancelled).
42. (Cancelled).
43. (Cancelled).
44. (Cancelled).
45. (Currently Amended) A method for the treatment or prophylaxis of oncogenic viruses, including adenoviruses, retroviruses, and papovavirus family, including polyoma viruses and papilloma viruses comprising the administration of a compound according to any one of claims 1 to 33.
46. (Currently Amended) A method for the treatment or prophylaxis of conditions or disorders due to HPV infection comprising the administration of a compound according to any one of claims 1 to 33.
47. (Original) The method of claim 46 wherein the condition or disorder is warts, genital warts, cervical dysplasia, recurrent respiratory papillomatosis, or cancers associated with papillomavirus infection.